AMENDMENTS TO THE CLAIMS

Claims 1-28 (Cancelled)

Claim 29. (Currently amended) A functional fluid comprising:

(I) at least one base stock having

(a) a kinematic viscosity of 1.5 to about 8.5 mm^2/sec at 100°C,

(b) a viscosity index of about 120 to about 150,

(c) a pour point of less than about -12°C,

(d) a saturates content of about 92 to about 100 mass % made from natural mineral or synthetic waxy hydrocarbon feedstock which waxy feedstocks have a wax content of at least about 50 wt% and which waxy feedstocks are converted into said base stock by

(i) hydrotreating the waxy feedstock with a hydrotreating catalyst under effective hydrotreating conditions such that less than 5 wt% of the feedstock is converted to 343°C (650°F) minus products to produce a hydrotreated feedstock whose VI increase is less than 4 greater than the VI of the waxy feedstock;

(ii) stripping or distilling the hydrotreated feedstock to separate gaseous product form liquid product;

(iii) hydrodewaxing the liquid product with a dewaxing catalyst under catalytically effective hydrodewaxing conditions wherein the dewaxing catalyst contains at least one Group 9 or Group 10 noble metal;

(iv) optionally hydrofinishing the product from (iii) with a hydrofinishing catalyst under hydrofinishing conditions;

(e) a measured-to-theoretical viscosity ratio of less than 1.2.

(II) from about 50 vol% to 80 vol% of a hydrocracked Group II or Group III or mixture thereof comprising one or more hydrocracked bases stocks having:

(a) a kinematic viscosity of about 1.5 to about 6.5 mm^2/sec at 100°C,

(b) a viscosity index of about 90 or higher,

(c) a pour point of less than about -15°C,

(d) a saturates content of about 92 to about 100 mass %

said mixture of base stocks having a base stock blend:

(a) kinematic viscosity of about 3 mm^2/sec to about 6.5 mm^2/sec at 100°C,

(b) a viscosity index of about 120 to about 150,

(c) a pour point of less than about -15°C; and

(III) at least one performance additive;

wherein said functional fluid has:

(a) a kinematic viscosity of about 4.5 to about 9.5 mm^2/sec at 100°C,

(b) a viscosity index of about 150 to about 230,

(c) a pour point of about -42°C or less, and

(d) a Brookfield viscosity of about 20,000 cP or less at -40°C.

Claim 30. (Previously added) The functional fluid of claim 29 wherein said functional fluid has a kinematic viscosity of about 5.5 to about 8.5 mm^2/sec at 100°C.

Claim 31. (Previously added) The functional fluid of claim 29 wherein said functional fluid has a Brookfield viscosity of about 15,000 cP or less at -40°C.

Claim 32. (Previously added) The functional fluid of claim 29 wherein said functional fluid has a Brookfield viscosity of about 10,000 cP or less at -40°C.

Claim 33. (Previously added) The functional fluid of claim 29 wherein said base stock incorporated into said functional fluid has a kinematic viscosity of about 2.0 to about 6.0 mm^2/sec at 100°C.

Claim 34. (Previously added) The functional fluid of claim 29 wherein said base stock incorporated into said functional fluid has a kinematic viscosity of about 3.0 to about 5.0 mm^2/sec at 100°C.

Claim 35. (Previously added) The functional fluid of claim 29 wherein said base stock incorporated into said functional fluid has a viscosity index of about 130 to about 150.

Claim 36. (Previously added) The functional fluid of claim 29 wherein said base stock incorporated into said functional fluid has a pour point of less than about -15°C.

Claim 37. (Previously added) The functional fluid of claim 29 wherein said base stock incorporated into said functional fluid has a saturates content of about 96 to about 100 mass %.

Claim 38. (Previously added) The functional fluid according to claim 29 comprising:

(I) at least one base stock having

(a) a kinematic viscosity of 3.0 to about 5.0 mm^2/sec at 100°C,

(b) a viscosity index of about 130 to about 150,

(c) a pour point of less than about -15°C,

(d) a saturates content of about 96 to about 100 mass %; and

(II) from about 50 vol% to 80 vol%, of hydrocracked Group II or Group III base stock or mixture thereof comprising one or more hydrocracked bases stocks having:

(a) a kinematic viscosity of about 1.5 to about 6.5 mm^2/sec at 100°C,

(b) a viscosity index of about 90 or higher,

(c) a pour point of less than about -15°C,

(d) a saturates content of about 92 to about 100 mass %

said mixture of base stocks having a base stock blend:

(a) kinematic viscosity of about 3.5 mm^2/sec to about 5.5 mm^2/sec at 100°C,

(b) a viscosity index of about 120 to about 150,

(c) a pour point of less than about -15°C; and

(III) at least one performance additive;

wherein said functional fluid has:

(a) a kinematic viscosity of about 5.5 to about 8.5 mm^2/sec at 100°C,

(b) a viscosity index of about 150 to about 230,

(c) a pour point of about -42°C or less, and

(d) a Brookfield viscosity of about 15,000 cP or less at -40°C.

Claim 39. (Previously added) The functional fluid according to claim 29 wherein the functional fluid is an Automatic Transmission Fluid.

Claim 40. (Previously added) The functional fluid according to claim 29 wherein said waxy feedstock is a gas-to-liquid feedstock.

Claim 41. (Previously added) The functional fluid according to claim 29, 30 or 40 wherein the hydrodewaxing of the liquid product with a dewaxing catalyst uses as the dewaxing catalyst at least one of ZSM-48, ZSM-57, ZSM-23, ZSM-22, ZSM-35, ferrierite, ECR-42, ITQ-13, MCM-71, MCM-68, beta, fluorided alumina, silica-alumina or fluorided alumina containing at least one Group 9 or Group 10 noble metal.

Claim 42. (Previously added) The functional fluid according to claim 29, 39 or 40 wherein the hydrofinishing step employs a mesoporous hydrofinishing catalyst from the M41-S family.

Claim 43. (Previously added) The functional fluid according to claim 29, 39 or 40 wherein the hydrodewaxing catalyst is ZSM-48 containing at least one Group 9 or Group 10 noble metal and the hydrofinishing catalyst is MCM-41.